

#2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/934,634

DATE: 09/07/2001

TIME: 16:36:35

Input Set : A:\SEQUENCE.txt

Output Set: N:\CRF3\09072001\I934634.raw

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3 <110> APPLICANT: Gorczynski, Reginald M.
 5 Clark, David A.
 7 <120> TITLE OF INVENTION: Methods and Compositions for Modulating Fertility
 9 <130> FILE REFERENCE: 9579-34
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/934,634
 C--> 12 <141> CURRENT FILING DATE: 2001-08-23
 14 <150> PRIOR APPLICATION NUMBER: US 09/570,367
 16 <151> PRIOR FILING DATE: 1998-05-05
 18 <160> NUMBER OF SEQ ID NOS: 22
 20 <170> SOFTWARE: PatentIn version 3.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 2791
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Mus musculus
 27 <400> SEQUENCE: 1

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32	gtctctgaac	cagattttat	ctgttgctgc	ctctctgatg	acagctgggc	aaggccccaa	180
34	tctattagta	tagcagaatg	tcattaagaa	tcattctttt	cttccttcca	ttttttcttc	240
36	ttcttctact	ccctccccc	ttctctctct	ctctttcttt	ctttctttct	ttctttttct	300
38	ttctttcttt	ctctctctcc	ctctttctct	ctctccctct	ctctctttct	ttctttcttt	360
40	ctttctcttt	ttctttctgt	ctttctctct	ctttccctct	ttccttcccc	agctgtgttt	420
42	ggttctaccc	taggaactctg	ggctttccat	tatctgggtc	ttgaccatcc	aggcaatata	480
44	ggtacaagct	ctctcttata	gggtgggcct	caagttaaag	taaacattgg	ttggtcactc	540
46	cctcacgttt	tctactaaaa	tctcataggg	aggacatatt	gtgggtagag	gatttagagg	600
48	caggtttagt	gtccagggtt	gtcttttcat	ggtctgtaga	ataccttctc	acaccagaga	660
50	gactagagtc	tagagtccaa	acctcagctc	tagcctctct	atgttcagtg	agctgaatga	720
52	aagttgacct	cagcaatggg	tccactgtc	aggttttaga	gggtgacctt	cagttgtagg	780
54	tcccaagtct	ctctctctcc	tctctccctt	tctcgatctc	tctctctctc	tctctctctc	840
56	tctctctctc	tctctctctc	tctctctctc	tctctctctc	ttatacttgt	gattgaagat	900
58	gtgatctctc	tggcagcctg	gtaccatgcc	tcttggtcac	ttagagactc	tcctcctgta	960
60	gctataagcc	caacaaatct	ttttccacag	gtttctactc	tagtacagaa	acagaaatgt	1020
62	caccaatata	gtcaatcggt	tctgtaaagc	tttcatcaag	gaaaacctca	gttccagggc	1080
64	ttcctgtgac	tcatttgatc	tgtcccttga	ttctcatctg	ttttaaggaa	tactgcggga	1140
66	caatctgatt	agcagaaaga	aagtgtcttt	gggttttcag	gaagtgtgtt	cacaggtagc	1200
68	tctgagccct	taggacttct	aaagctctag	atgaggtacc	tggttaaccac	acacacacac	1260
70	acacacacac	acacacacac	acacgcactg	gcctttaata	taacaaatca	taaaataaag	1320
72	tttttctttt	tttttcccca	gggtgtctgt	atgaatctcc	ttaccttctt	ccccctacac	1380
74	acacacacac	acacacacac	acacacacac	acactattgt	tctgttctcc	gagtttacct	1440
76	tttgctgtac	agaaccacag	gatgcaccgg	gtttctgact	caaattactg	tccactcaag	1500
78	ttagtcccca	ctccgatttt	tctgtatgga	ctacgtcacc	ctatactgcc	atttggcacg	1560
80	ggagagaggg	cagtgtatgg	aatgcagacg	aaacatgcac	acacatgtaa	aataagataa	1620
82	ataaatctaa	aattgaaaaa	aatatagagt	gattctttca	catttttgct	atattactct	1680
84	aaaaggcgag	aacctggcgg	gggcgggggc	aggggctagg	gacgagggtg	tagaggcggt	1740
86	ggttggttgg	tcgtctcttc	ctccacacta	gaggagctgt	agagtcctgc	tgtgcgggtg	1800
88	agggggctct	ctctacggcg	aatagtagtg	tccctgtctc	caggtgttgc	ggagatatcc	1860
90	tccatcgtgg	aagagctcag	accccgagaa	gctggtgtct	agctgcggcc	ccgagcaagg	1920

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92 atgggagcagc tggtagtgag aatctgagat gcgaaggagg gcggaatggg cgatctggag 1980
94 ccgcggctct cagaagccag tggagcctgc gagaaaagca aggaagctgt tctttggaga 2040
96 agtggatcc ggggctcgga gctctgtaag gaggcaccgg ccggagaaag cccggggaac 2100
98 gcgtgtatct aggggtggcg gctttgctcc ttgctgcgat tccattgcga aaacacggcc 2160
100 tgagctccat ggctcccaga aggggaggag tagctctttg cgtcccctat gttggtcctt 2220
102 aacctgcagc aggggtgtag cctagtaatc tcgcttgctc tctttctcac cccctctctt 2280
104 gctgcatttc tgctccttgc ctagaaaacc atgaagcatc tagcagtact gcagcgagca 2340
106 agccacagct tagtggctct gttaaatgcc aaggtattta gaggagaggc cgacattttg 2400
108 agtctttggt actgtttaca aggcagaaaa ttttaaaagg aagggtgggc atacgcctta 2460
110 ttctttatac acacggaatt ggtagaattg aatgcgaatc taaacgcaat taaacccag 2520
112 gtaccacttt tcatcaggct gacaaagacc gacttggtgtt acctttccta acaaagagga 2580
114 atgtggatct gtcagctaga tgctcttagt gttcaaacaa ggaattgctt tctgttttac 2640
116 aaagaatcgg agagagagggt tctttttttt ctctccaagt ctctgtggct gcaatgaaat 2700
118 aaggtacaaa atcagacctg gaaagaatag gggaatgggg ctatgcacct agcagaccag 2760
120 cccgggccgt cgaccacgct tgccctatag t 2791
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124 <211> LENGTH: 278
125 <212> TYPE: PRT
126 <213> ORGANISM: Mus musculus
128 <400> SEQUENCE: 2
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131 1 5 10 15
133 Ser Leu Ile Trp Gly Met Ala Ala Val Ala Leu Ser Thr Ala Gln Val
134 20 25 30
136 Glu Val Val Thr Gln Asp Glu Arg Lys Ala Leu His Thr Thr Ala Ser
137 35 40 45
139 Leu Arg Cys Ser Leu Lys Thr Ser Gln Glu Pro Leu Ile Val Thr Trp
140 50 55 60
142 Gln Lys Lys Lys Ala Val Ser Pro Glu Asn Met Val Thr Tyr Ser Lys
143 65 70 75 80
145 Thr His Gly Val Val Ile Gln Pro Ala Tyr Lys Asp Arg Ile Asn Val
146 85 90 95
148 Thr Glu Leu Gly Leu Trp Asn Ser Ser Ile Thr Phe Trp Asn Thr Thr
149 100 105 110
151 Leu Glu Asp Glu Gly Cys Tyr Met Cys Leu Phe Asn Thr Phe Gly Ser
152 115 120 125
154 Gln Lys Val Ser Gly Thr Ala Cys Leu Thr Leu Tyr Val Gln Pro Ile
155 130 135 140
157 Val His Leu His Tyr Asn Tyr Phe Glu Asp His Leu Asn Ile Thr Cys
158 145 150 155 160
160 Ser Ala Thr Ala Arg Pro Ala Pro Ala Ile Ser Trp Lys Gly Thr Gly
161 165 170 175
163 Thr Gly Ile Glu Asn Ser Thr Glu Ser His Phe His Ser Asn Gly Thr
164 180 185 190
166 Thr Ser Val Thr Ser Ile Leu Arg Val Lys Asp Pro Lys Thr Gln Val
167 195 200 205
169 Gly Lys Glu Val Ile Cys Gln Val Leu Tyr Leu Gly Asn Val Ile Asp
170 210 215 220
172 Tyr Lys Gln Ser Leu Asp Lys Gly Phe Trp Phe Ser Val Pro Leu Leu

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173 225          230          235          240
175 Leu Ser Ile Val Ser Leu Val Ile Leu Leu Val Leu Ile Ser Ile Leu
176          245          250          255
178 Leu Tyr Trp Lys Arg His Arg Asn Gln Glu Arg Gly Glu Ser Ser Gln
179          260          265          270
181 Gly Met Gln Arg Met Lys
182          275
184 <210> SEQ ID NO: 3
185 <211> LENGTH: 14
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Primer ✓
192 <400> SEQUENCE: 3
193 ttttgtacaa gctt 14
196 <210> SEQ ID NO: 4
197 <211> LENGTH: 44
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Adapter 1 ✓
204 <400> SEQUENCE: 4
205 ctaatacgac tcactatagg gctcgagcgg ccgcccgggc aggt 44
208 <210> SEQ ID NO: 5
209 <211> LENGTH: 43
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Adapter 2 ✓
216 <400> SEQUENCE: 5
217 tgtagcgtga agacgacaga aagggcgtgg tgcggagggc ggt 43
220 <210> SEQ ID NO: 6
221 <211> LENGTH: 22
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Primer 1 ✓
228 <400> SEQUENCE: 6
229 ctaatacgac tcactatagg gc 22
232 <210> SEQ ID NO: 7
233 <211> LENGTH: 22
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Nested Primer 1 ✓
240 <400> SEQUENCE: 7
241 tcgagcggcc gcccgggcag gt 22
244 <210> SEQ ID NO: 8
245 <211> LENGTH: 21

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246 <212> TYPE: DNA
 247 <213> ORGANISM: Artificial Sequence
 249 <220> FEATURE:
 250 <223> OTHER INFORMATION: Primer 2 ✓
 252 <400> SEQUENCE: 8
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 256 <210> SEQ ID NO: 9
 257 <211> LENGTH: 22
 258 <212> TYPE: DNA
 259 <213> ORGANISM: Artificial Sequence
 261 <220> FEATURE:
 262 <223> OTHER INFORMATION: Nested Primer 1 ✓
 264 <400> SEQUENCE: 9
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 269 <211> LENGTH: 25
 270 <212> TYPE: DNA
 271 <213> ORGANISM: Artificial Sequence
 273 <220> FEATURE:
 274 <223> OTHER INFORMATION: GADPH Sense ✓
 276 <400> SEQUENCE: 10
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 280 <210> SEQ ID NO: 11
 281 <211> LENGTH: 23
 282 <212> TYPE: DNA
 283 <213> ORGANISM: Artificial Sequence
 285 <220> FEATURE:
 286 <223> OTHER INFORMATION: GADPH Antisense ✓
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 289 tccttgagg ccatgtaggc cat 23
 292 <210> SEQ ID NO: 12
 293 <211> LENGTH: 20
 294 <212> TYPE: DNA
 295 <213> ORGANISM: Artificial Sequence
 297 <220> FEATURE:
 298 <223> OTHER INFORMATION: B7-1 Sense ✓
 300 <400> SEQUENCE: 12
 301 ccttgccggtt acaactctcc 20
 304 <210> SEQ ID NO: 13
 305 <211> LENGTH: 20
 306 <212> TYPE: DNA
 307 <213> ORGANISM: Artificial Sequence
 309 <220> FEATURE:
 310 <223> OTHER INFORMATION: B7-1 Antisense ✓
 312 <400> SEQUENCE: 13
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 316 <210> SEQ ID NO: 14
 317 <211> LENGTH: 20
 318 <212> TYPE: DNA

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321 <220> FEATURE:
322 <223> OTHER INFORMATION: B7-2 Sense ✓
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325 tctcagatgc tgtttccgtg 20
328 <210> SEQ ID NO: 15
329 <211> LENGTH: 20
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: B7-2 Antisense ✓
336 <400> SEQUENCE: 15
337 ggttcactga agttggcgat 20
340 <210> SEQ ID NO: 16
341 <211> LENGTH: 20
342 <212> TYPE: DNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: OX-2 Sense ✓
348 <400> SEQUENCE: 16
349 gtggaagtgg tgacccagga 20
352 <210> SEQ ID NO: 17
353 <211> LENGTH: 20
354 <212> TYPE: DNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: OX-2 Antisense ✓
360 <400> SEQUENCE: 17
361 atagagagta aggcaagctg 20
364 <210> SEQ ID NO: 18
365 <211> LENGTH: 825
366 <212> TYPE: DNA
367 <213> ORGANISM: Homo sapiens
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372 gtggtgctgt gcacagcaca agtgcaagtg gtgaccagg atgaaagaga gcagctgtac 120
374 acacctgctt ccttaaatg ctctctgcaa aatgccagg aagccctcat tgtgacatgg 180
376 cagaaaaaga aagctgtaag ccagaaaaac atggtcacct tcagcgagaa ccatgggggtg 240
378 gtgatccagc ctgcctataa ggacaagata aacattaccc agctgggact ccaaaactca 300
380 accatcacct tctggaatat caccctggag gatgaagggt gttacatgtg tctcttcaat 360
382 acctttggtt ttgggaagat ctgaggaacg gcctgcctca ccgtctatgt acagcccata 420
384 gtatcccttc actacaaatt ctctgaagac cacctaaata tcacttgctc tgccactgcc 480
386 cgccagccc ccatggtctt ctggaaggtc cctcggtcag ggattgaaaa tagtacagtg 540
388 actctgtctc acccaaatgg gaccacgtct gttaccagca tcctccatat caaagaccct 600
390 aagaatcagg tggggaagga ggtgatctgc caggtgctgc acctggggac tgtgaccgac 660
392 tttaagcaaa ccgtcaacaa aggatattgg ttttcagttc cgctattgct aagcattggt 720
394 tccctggtaa ttcttctcat cctaattctc atcttactgt actggaaacg tcaccggaat 780
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399 <210> SEQ ID NO: 19

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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date